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APPENDIX A

Pending Claims

- 55. (New) A method for treating erectile dysfunction, the method comprising: contacting a tissue surface with an effective amount of one or more agent(s); and
 - applying ultrasound energy to said tissue surface, such that the erectile dysfunction is treated.
- 56. (New) A method for transdermal administration of one or more agent(s) to the tissue surface of a subject, the method comprising:
 - contacting the tissue surface with an effective amount of one or more agent(s); and
 - applying ultrasound energy to said tissue surface, thereby promoting transdermal administration of one or more agent(s) to the tissue surface of the subject.
- 57. **(New)** A method for transdermal delivery of one or more agent(s) to the skin of the penis, the method comprising:
 - contacting the penile tissue of a subject with an effective amount of one or more agent(s); and
 - applying ultrasound energy to said penile tissue, thereby promoting transdermal delivery of one or more agent(s) to the penis.
- 58. (New) A method for promoting a penile erection, the method comprising: contacting one or more agent(s) to the penile tissue of the subject; and applying ultrasound to the penile tissue, thereby promoting a penile erection.
- 59. (New) The method of claim 55, wherein the tissue surface may be selected from the group consisting of: a skin surface of the patient, a skin surface of the penis, the glans, and the shaft of the penis.
- 60. (New) The method of claim 55, wherein the step of contacting comprises applying the one or more agent(s) to the tissue surface with a skin patch carrying the active agent.

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- 61. (New) The method of claim 55, wherein the step of contacting comprises applying the one or more agent(s) to the tissue surface from a reservoir of the one or more agent(s) stored within a hand held applicator.
- 62. (New) The method of claim 55, wherein the step of contacting comprises applying the one or more agent(s) to the tissue surface with a condom coated with the one or more agent(s).
- 63. (New) The method of claim 55, wherein the agent(s) may be selected from the group consisting of: phosphodiesterase inhibitors, vasoactive agents, papaverine, minoxidil, prostaglandins, prostaglandin E2, organic nitrites, inhibitors of the renin-angiotensin system, inducible Nitric Oxide Synthase (iNOS) agents, enzyme inhibitors, sildenafil, alprostadil and smooth muscle relaxant.
- 64. (New) A device for promoting transdermal absorption of one or more therapeutic agent(s) comprising:

an applicator for applying an effective amount of one or more agent(s) to a tissue surface of a subject; and

an ultrasound means, operatively coupled to the applicator, for providing ultrasound energy to the tissue surface that operates at one or more predetermined frequency to promote transdermal absorption of the one or more agent(s) through the tissue of the subject.

- 65. (New) A device for treating erectile dysfunction, comprising:
 - an applicator for applying an effective amount of one or more agent(s) to a tissue surface of a subject; and
 - an ultrasound means, operatively coupled to the applicator for treating erectile dysfunction.
- 66. (New) The device of claim 64, wherein the device further comprises a controller for varying the frequency of the ultrasound energy.
- 67. (New) The device of claim 64, wherein the device further comprises a controller for varying the power of the ultrasound energy.
- 68. (New) The device of claim 64, wherein the applicator further comprises a receptacle for drug dispensal.

- 69. (New) The device of claim 64, wherein the applicator further comprises a skin patch carrying a pre-defined dosage of the agent(s).
- 70. (New) The device of claim 64, wherein the applicator further comprises a condom carrying a pre-defined dosage of the agent(s).
- 71. (New) The device of claim 64, wherein the applicator further comprises a cartridge containing a pre-defined dosage of the agent(s).
- 72. (New) The device of claim 64, wherein the applicator further comprises a dispenser cartridge with a connector for coupling the dispenser to the transducer.
- 73. (New) The device of claim 64, wherein the applicator further comprises a reservoir of the agent(s) and a flow regulator for applying a pre-defined dosage of the agent(s).
- 74. **(New)** The device of claim 64, wherein the device further comprises a pressure transducer for monitoring changes in the tissue during therapy.
- 75. **(New)** The device of claim 64, wherein the device further comprises a ring-like structure adapted to surround the tissue surface.
- 76. (New) The device of claim 64, wherein the device further comprises a plurality of ultrasound transducers.
- 77. (New) The device of claim 76, wherein the plurality of ultrasound transducers are arranged to provide constructive wave interference.
- 78. (New) The device of claim 76, wherein the plurality of ultrasound transducers are arranged in a toroidal configuration.
- 79. (New) The device of claim 64, wherein the device further comprises a detector for monitoring feedback signals from the transducer.
- 80. (New) The device of claim 64, wherein the device further comprises a battery for power supply.

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81. **(New)** The device of claim 64, wherein the ultrasound means comprises a power source and at least one ultrasound transducer capable of providing ultrasound energy.